

21.31

Dr. W. H. Green
June 30th 1908

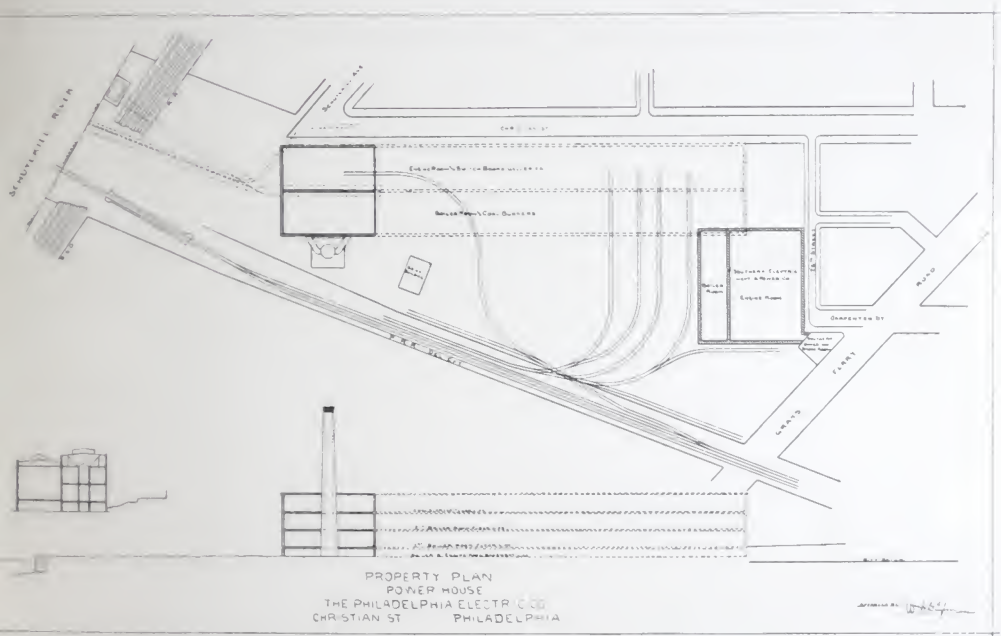
THE
GENERATING STATIONS
AND
SUB-STATIONS
OF
THE PHILADELPHIA
ELECTRIC COMPANY



MAIN OFFICE
TENTH AND CHESTNUT STREETS
PHILADELPHIA



THE PHILADELPHIA ELECTRIC COMPANY

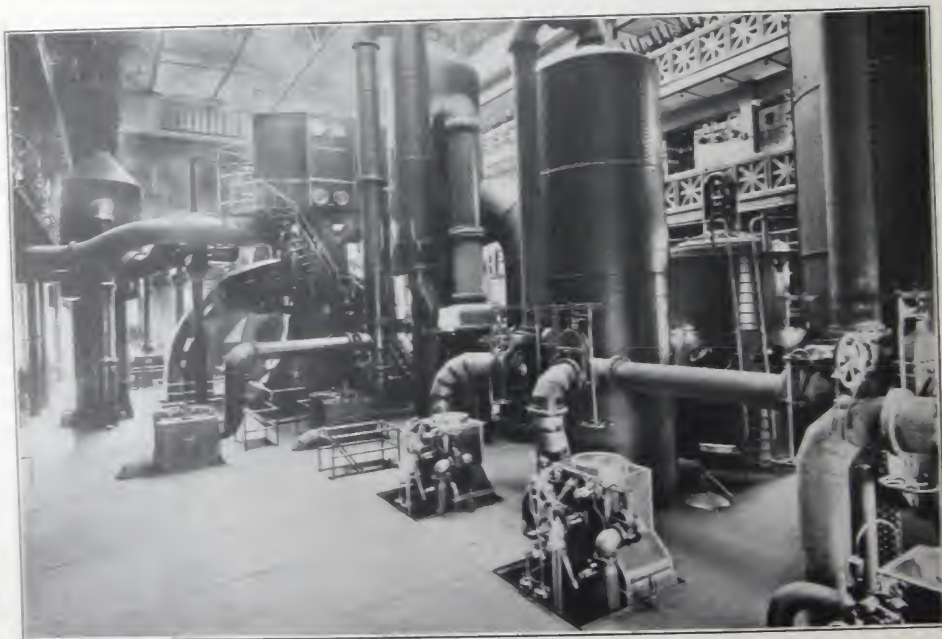


PROPERTY PLAN, MAIN GENERATING STATION
Area, 11.03 acres

THE GENERATING STATIONS AND SUB-STATIONS

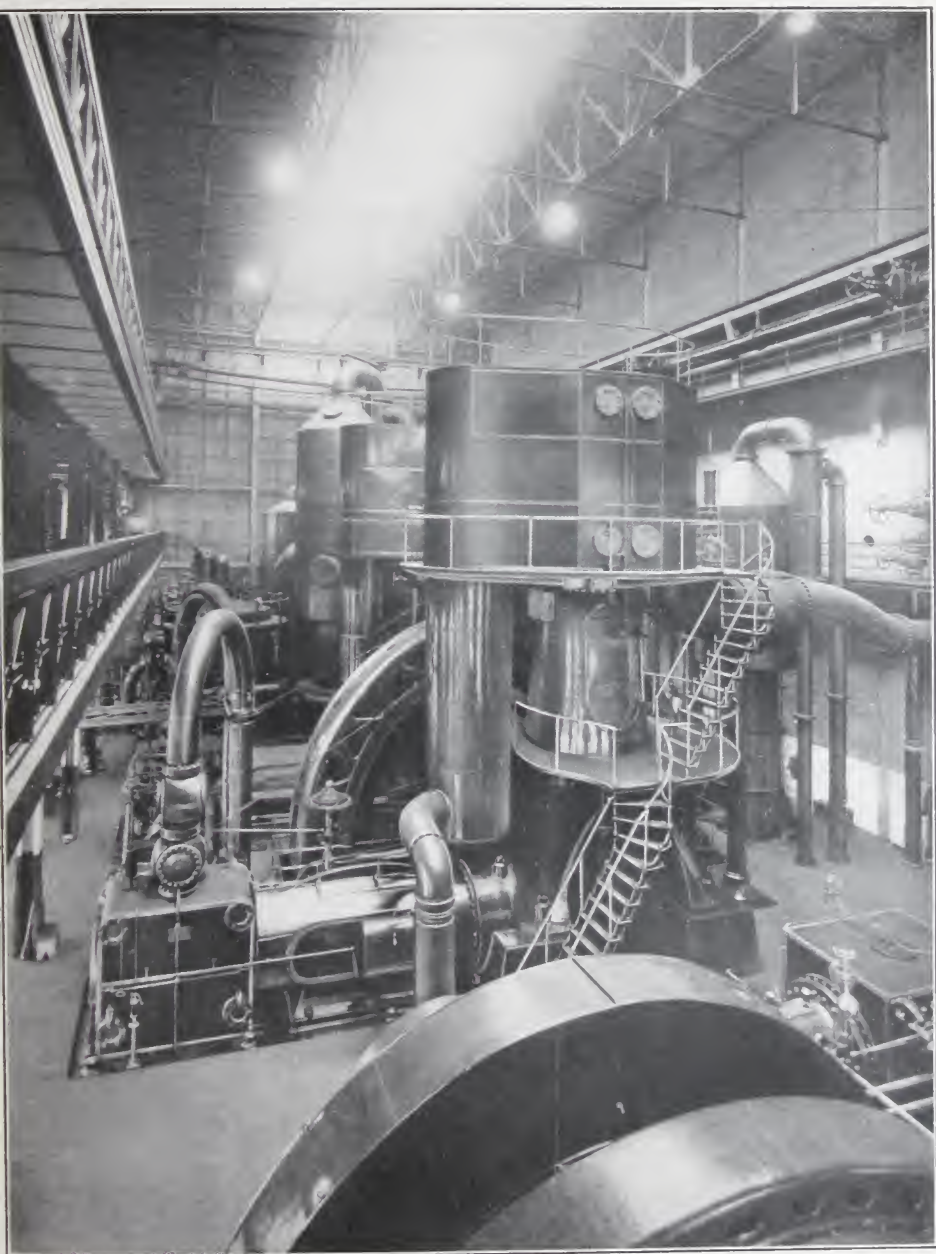


EXTERIOR OF MAIN GENERATING STATION (STATION A)



INTERIOR STATION A—SHOWING CONDENSERS

THE PHILADELPHIA ELECTRIC COMPANY



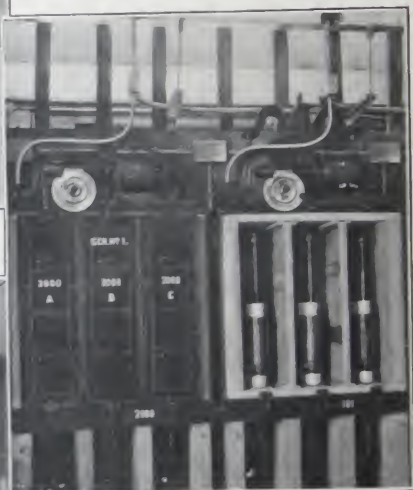
INTERIOR OF MAIN GENERATING STATION (First Section)

Maximum carrying capacity, 33,000 K. W. Two compound condensing steam engine driven units. Three Curtis turbo-generators

THE GENERATING STATIONS AND SUB-STATIONS



DIRECT-CURRENT
SWITCHBOARD
STATION A



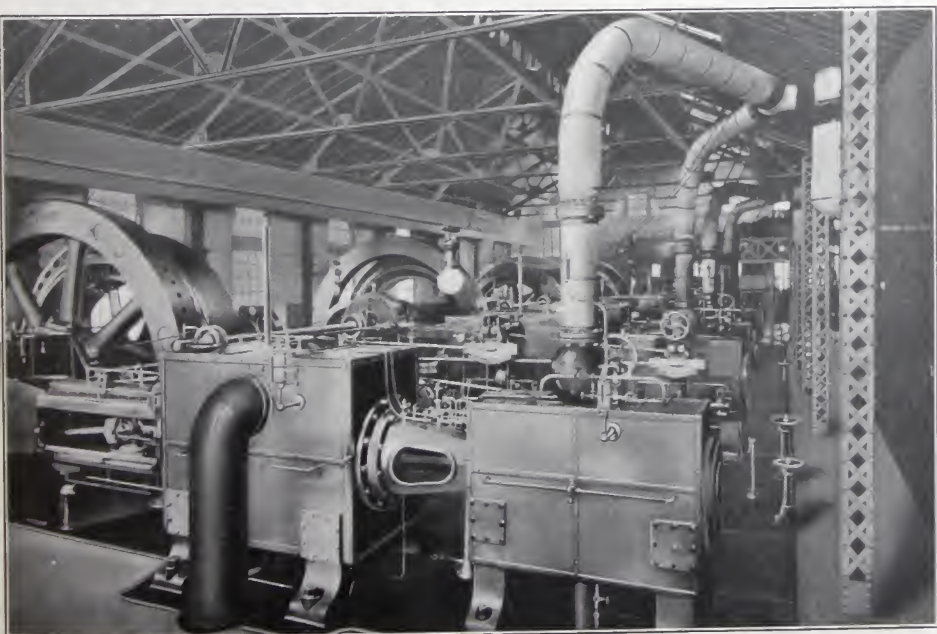
OIL SWITCHES AND CONTROL TABLE—STATION A

This station, in its design and equipment, is one of the most complete in this country, and is equal to that of any of the other companies operating in cities of the first class



EXTERIOR AND INTERIOR VIEWS OF STATION G

Generating station. Capacity, four 1,000 K. W., 6,000 V. generators. Four 1,500 H. P. twin compound condensing engines



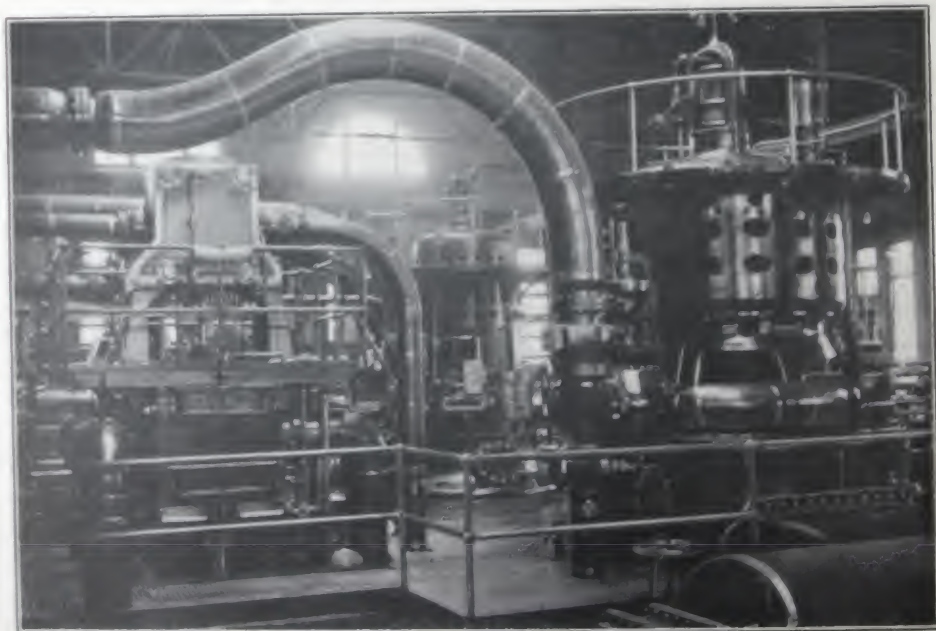
THE GENERATING STATIONS AND SUB-STATIONS



EXTERIOR AND INTERIOR VIEWS OF STATION J

Arc light capacity, 1,750 lights. Alternating-current capacity, 2,640 K. W.

Steam equipment: Compound condensing engines. Two steam turbines



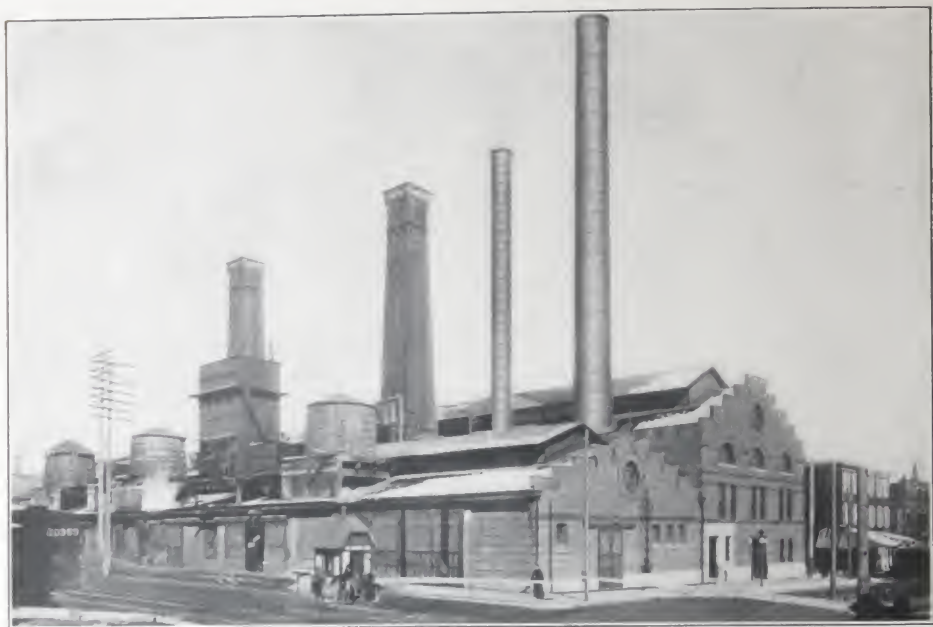
THE PHILADELPHIA ELECTRIC COMPANY



STATION C

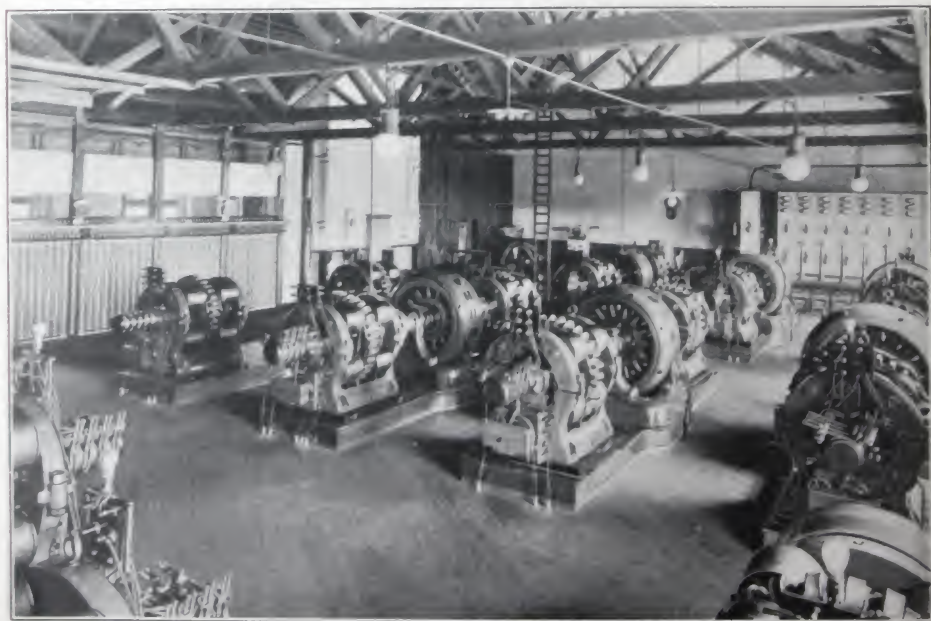
Direct-current generating station and sub-station. Generating capacity, 4,520 K. W.
Sub-station capacity, 1,600 K. W. Storage battery capacity, 900 K. W.

THE GENERATING STATIONS AND SUB-STATIONS

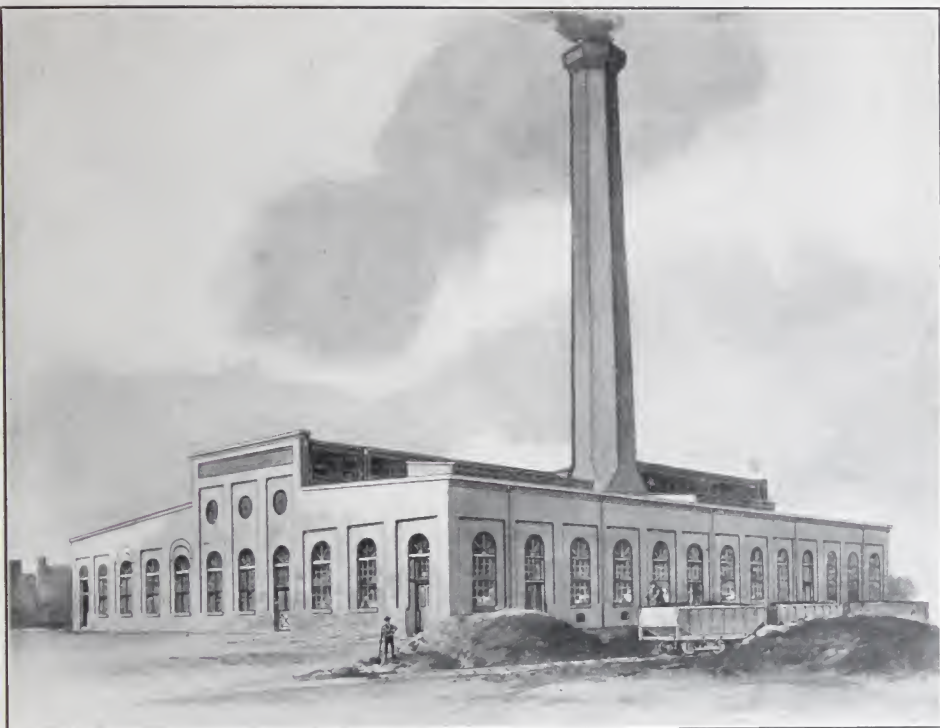


EXTERIOR AND INTERIOR VIEWS OF STATION H

Arc generating station and sub-station. Generating capacity, 1,750 lights. Motor-generators, 1,320 lights. Step-down transformers, 3,000 K. W. Switchboard. One 1,000 K. W. A. C. generator, also 500 K. W. reserve generator

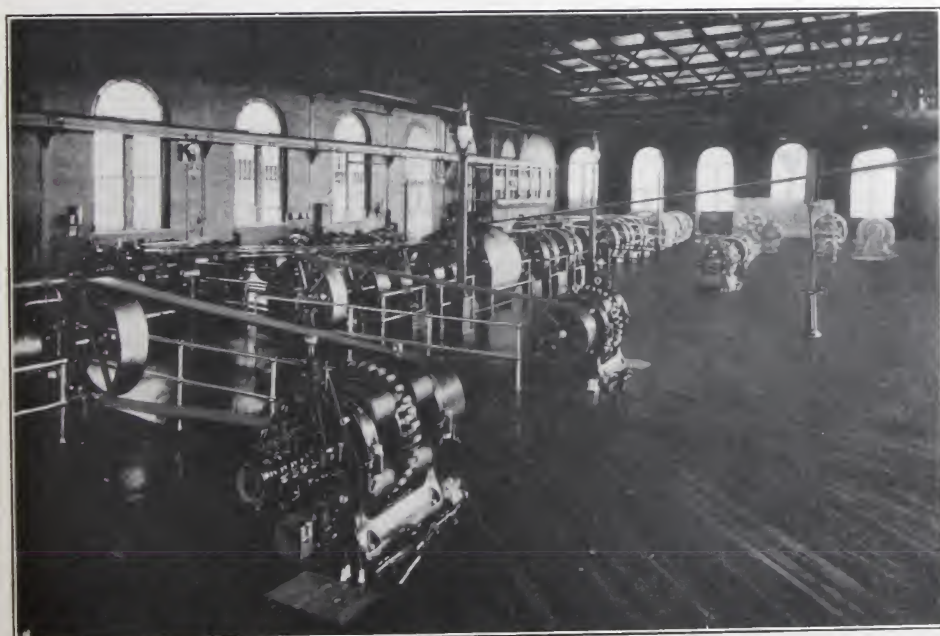


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EXTERIOR AND INTERIOR VIEWS OF STATION B

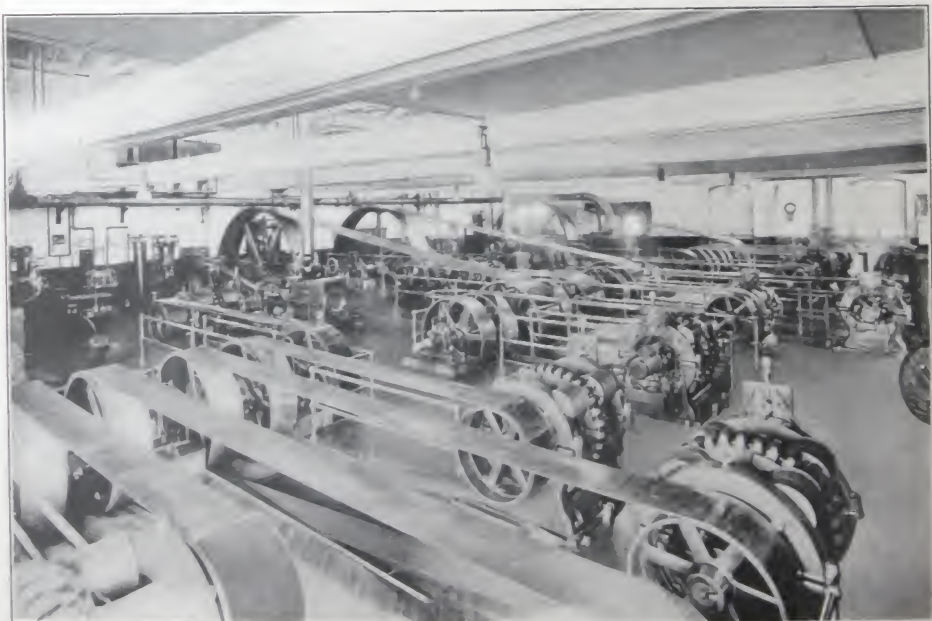
Arc generating station. Capacity, 4,125 lights. Portion used as a sub-station.
1,800 K. W. capacity



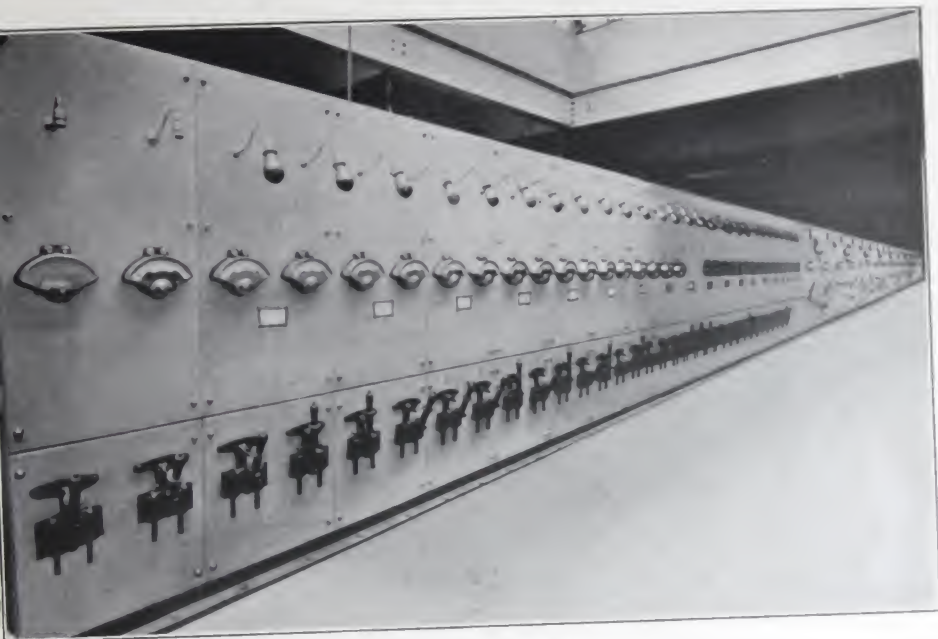
THE GENERATING STATIONS AND SUB-STATIONS



EXTERIOR AND INTERIOR VIEWS OF STATION M
Arc light generating station. Capacity, 2,000 lights



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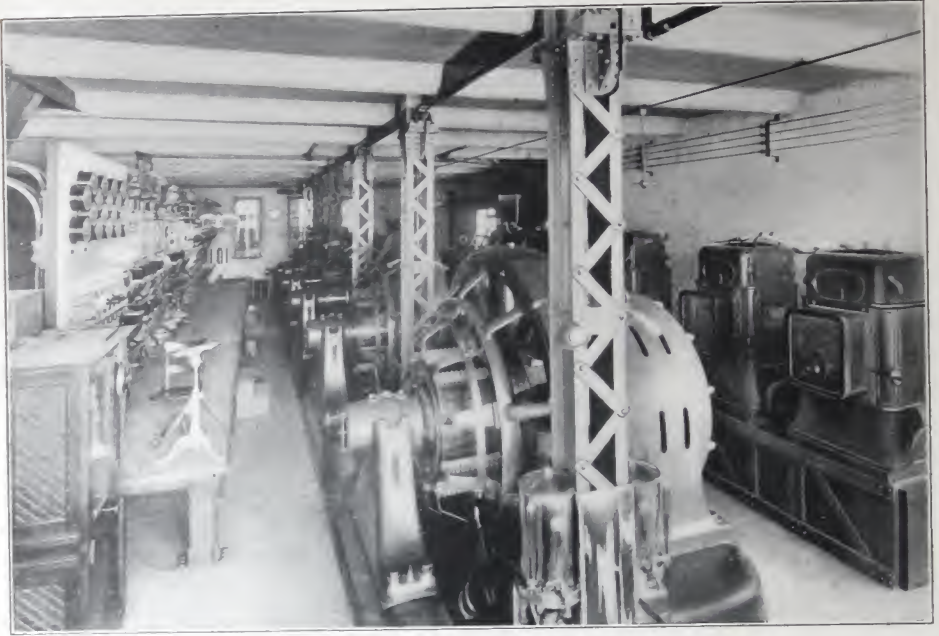
SWITCHBOARD

STATION L

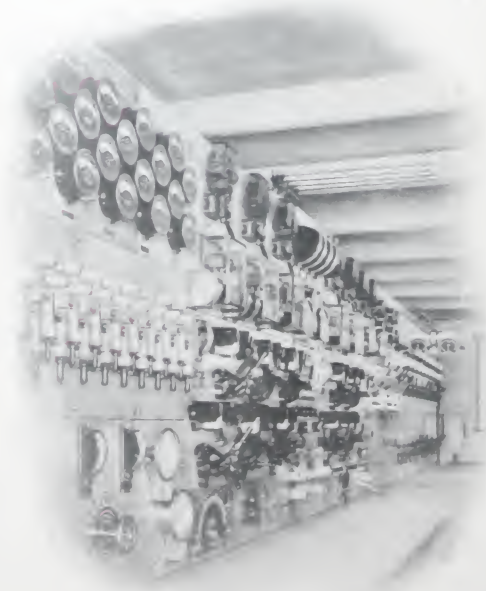
Sub-station. Capacity, 3,000 K. W.
in air-blast transformers; also equip-
ment of feeder regulators, switchboard,
instruments, etc. District office.



THE GENERATING STATIONS AND SUB-STATIONS



INTERIOR VIEW OF STATION D



Direct-current sub-station
Capacity, 2,200 K. W. motor-
generator sets
Storage battery capacity
450 K. W.

SWITCH-
BOARD

THE PHILADELPHIA ELECTRIC COMPANY



STATION K

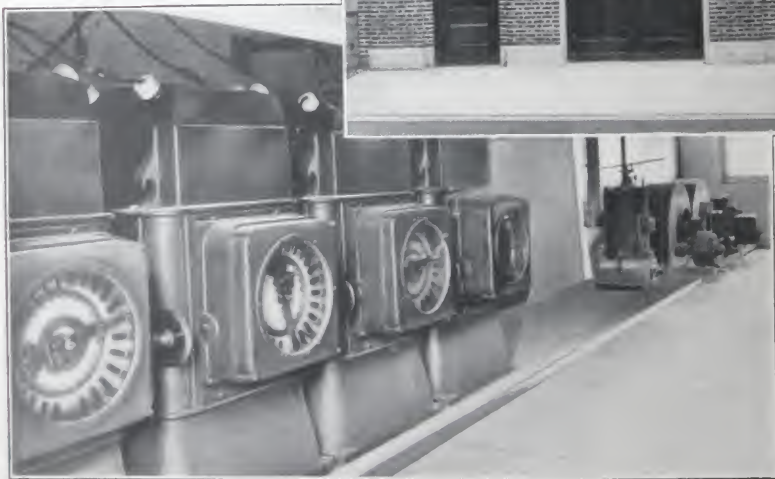
Distributing station, Cheltenham. Local office and storeroom



STATION N

Sub-station, Armat and Lena Streets, Germantown. Capacity, 1,500 K. W. air-blast type, step-down transformers, feeder regulators, etc.

THE GENERATING STATIONS AND SUB-STATIONS

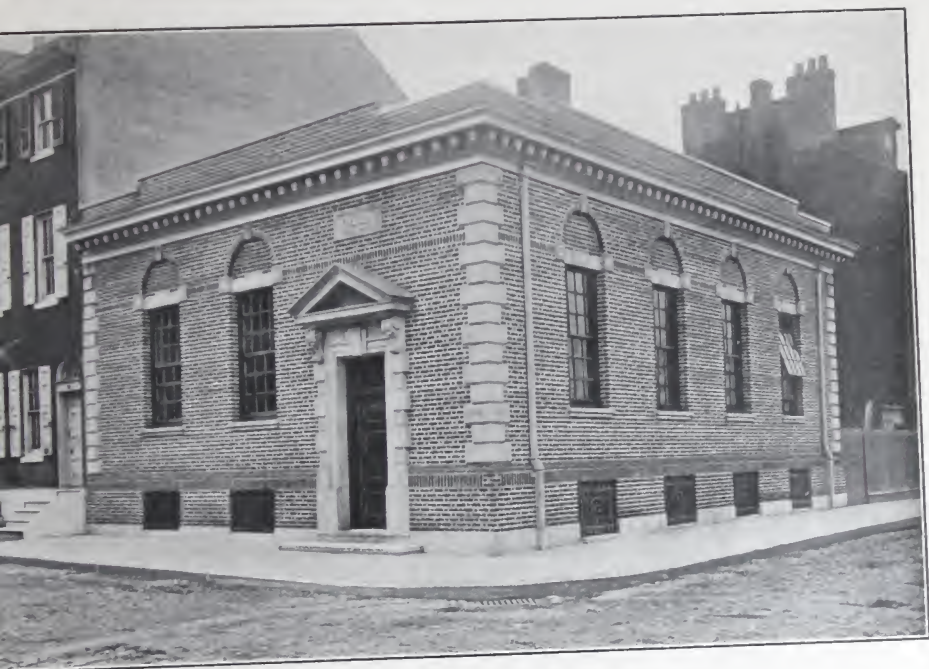


SUB-STATION O

4,000 K. W. capacity. Building and equipment of the first class, including automatic regulators for the distributing feeders, oil switches, etc.

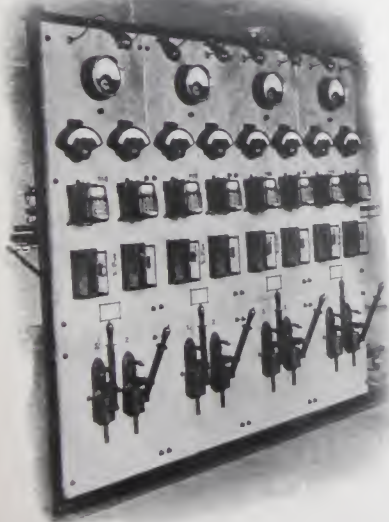
Fire-proof construction used throughout

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STATION P

Sub-station and distributing center. Capacity, 4,000 K. W. Equipment: Step-down, air-blast transformers, automatic regulators, oil switches, etc.



SWITCHBOARD



AUTOMATIC REGULATORS

THE GENERATING STATIONS AND SUB-STATIONS

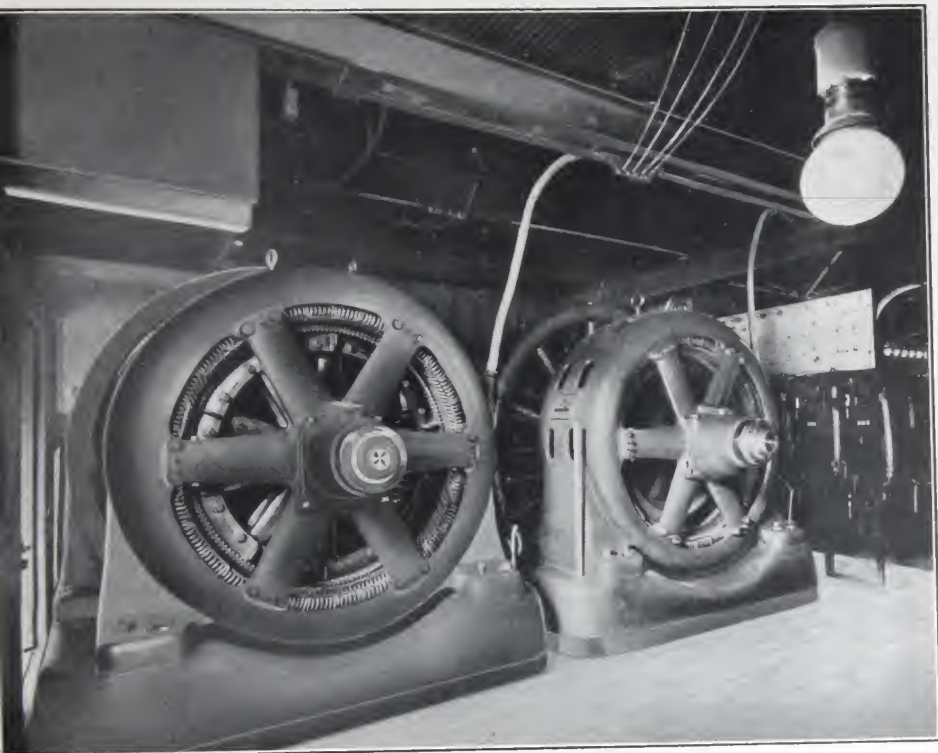


STATION Q

Direct-current converting and distributing station (showing proposed new front of building). Present equipment: 2,500 K.W. synchronous motor-generator sets.

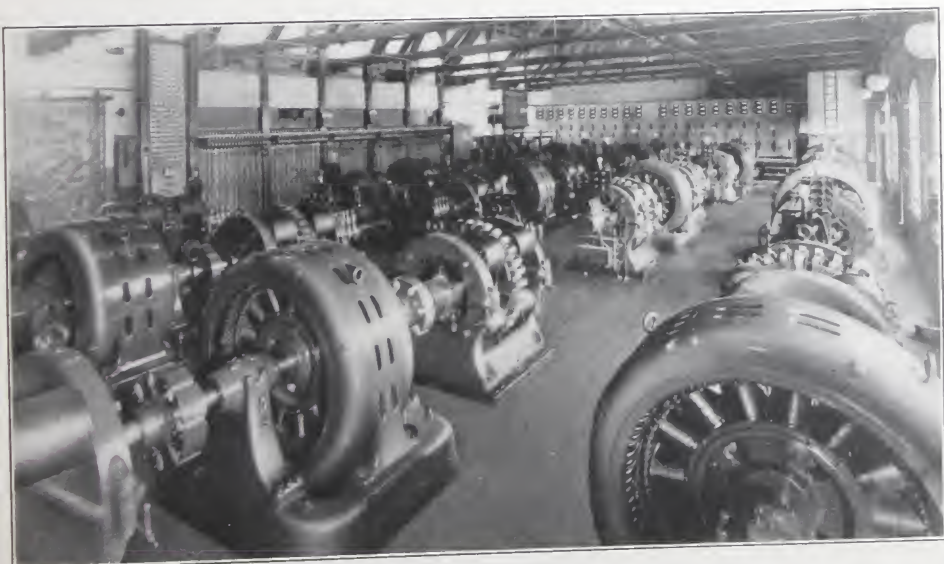
Provision for the addition of 3,000 K.W.—Storage battery, 450 K.W. capacity. High-tension and low-tension switchboards.

Controlling apparatus, etc.



STATION E and F

Arc generating station. Capacity, 3,525 lights. Portion equipped as a sub-station—
4,000 arc lights capacity; also, 1,200 K. W. in low tension,
direct-current motor-generator sets



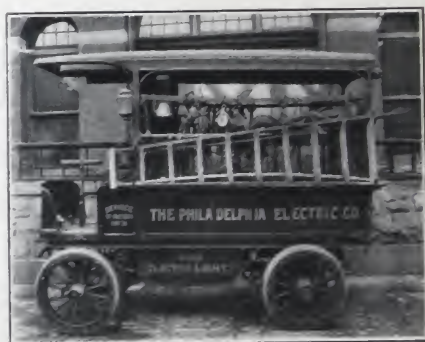
THE GENERATING STATIONS AND SUB-STATIONS



STATION S

31st Street and Girard Avenue

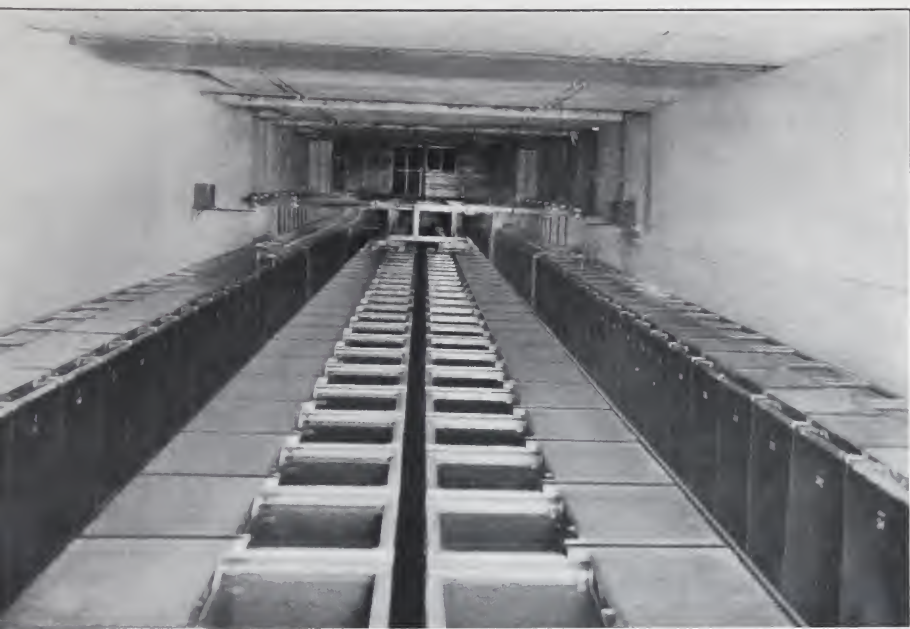
Automobile garage, arc carbon distributing center and machine shop



TYPE OF SERVICE AUTO



THE ELECTRIC AUTOMOBILE EQUIPMENT



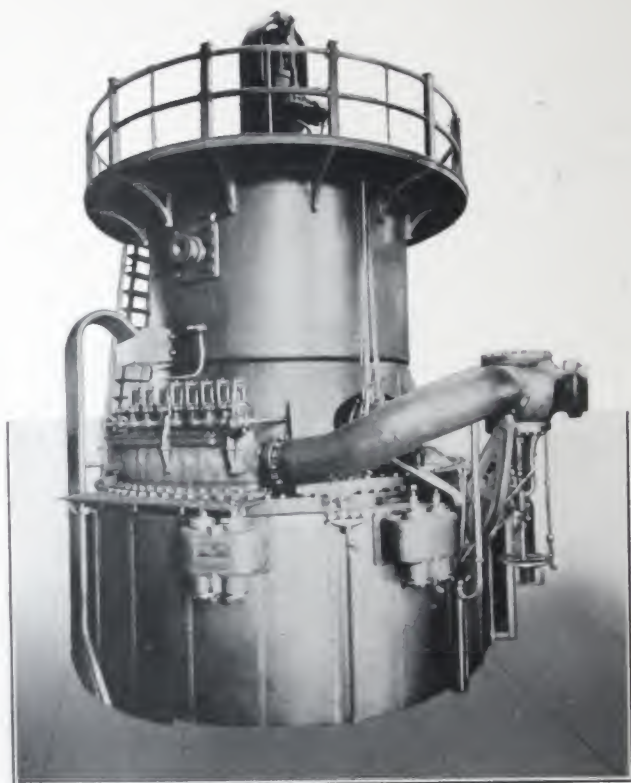
TYPE OF STORAGE BATTERY INSTALLATION



STANDARD TYPE OF MANHOLE

Showing conduits and cable-supporting racks. Capacity, 62 cables

THE PHILADELPHIA ELECTRIC COMPANY



TYPE OF TURBO-GENERATOR INSTALLED
IN STATIONS A and J



